

2008 MATE-BIRR Competition

Engineering Communication: Technical Report Judge's Evaluation Sheet

School/Team: _____ **Judge:** _____
 Class (circle one): RANGER EXPLORER

Judges: Please score the items below and record the score in the space provided in the right hand column. The total number of points possible (excluding discretionary and deductions) is 70.
1 0 = Yes (1) No (0) **2 1 0** = 2 – excellent, 1 – good, 0 – poor or missing

	70 pts max	SCORE
Overall Presentation	5 pts max	
Report is 5 pages or less, not including cover page	1 0	
<i>Description of Community Service + Photos: 1 additional page</i>	1 0	
Measurements are in SI units (metric)	1 0	
Report is well thought out, organized, and professional	2 1 0	
Cover Page Contains	4 pts max	
Project/ROV name	1 0	
School, club, or team name	1 0	
List of team members	1 0	
Names of instructor(s) and/or mentor(s)	1 0	
Photos of ROV	3 pts max	
Completed, intact vehicle photo	1 0	
Photo descriptions accompany photos	2 1 0	
Budget/Expense Sheet (summary OK)	7 pts max	
Math accurate	1 0	
Detailed accounting of funds	2 1 0	
Donations listed	2 1 0	
Expenditures listed	2 1 0	
Electrical Schematic	5 pts max	
Neatly hand-drawn or created using CAD	1 0	
Discloses presence of fuse/circuit breaker	2 1 0	
Clearly represents the electrical system	2 1 0	
Design Rationale	5 pts max	
Documents features to accomplish missions	1 0	
Presented in a clear and logical manner	2 1 0	
Demonstrates step-by-step planning process	2 1 0	
Vehicle Systems (score one)	2 pts max	
Team presents own, original work	2 1 0	
Documents work from commercial companies and/or instructors or mentors	0 -1 -2	
Challenges	4 pts max	
Describe at least one challenge faced	2 1 0	
Method used to overcome the challenge	2 1 0	
Page 1 Subtotal:		

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Team Name:	Page 1 Subtotal:	
Troubleshooting Techniques		4 pts max
Explain troubleshooting technique	2 1 0	
What was used to identify and solve the problem	2 1 0	
Future Improvement		2 pts max
Thoughtful and logical discussion for one improvement	2 1 0	
Lessons Learned		2 pts max
Lesson learned or skilled gained relating to the process	2 1 0	
Description of Mid-Ocean Ridges		5 pts max
Description of scientist and/or research project that uses ROVs to study mid-oceanic ridges	1 0	
At least two sources cited	1 0	
Photos or graphics	1 0	
Description is well-written and informative	2 1 0	
Reflections		4 pts max
Personal or professional accomplishments from competition participation	2 1 0	
Point of view includes the team as a whole or its individual members	2 1 0	
Teamwork		3 pts max
Team demonstrates teamwork and ideals behind working together	2 1 0	
Team designed and built vehicle, particularly in electrical and software	2 1 0	
Acknowledgements		2 pts max
Lists companies, organizations, or individuals	1 0	
Recognizes donations of funds, supplies, and time	1 0	
<i>MATE-BIRR Community Service</i>		10 pts max
<i>Participated in at least 1 community service event</i>	1 0	
<i>Participated in 2 or more community service projects</i>	1 0	
<i>Community service outreach project has a ROV theme</i>	2 1 0	
<i>Description of service outreach and benefits for team and those served</i>	2 1 0	
<i>Lists or brings up potential future community service events</i>	2 1 0	
<i>Photo Documents with captions</i>	2 1 0	
Technical Report Score:		
Discretionary Points		5 pts max
Bonus points for extraordinary work – grammatically correct, showed extra effort to overcome obstacles, etc.	5 3 2 1	
Deductions		-4 pts max
Lacks software block diagram or flow chart, if applicable	-2	
Overuse of appendices	-2 -1	
Grand Total:		

Comments: